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Angular accelerometer - has electronic unit to process imbalance signal caused by movement of rotor and uses output signal for damping and balancing

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
SU 1040424	A	19830907	SU 3405388	A	19820303		198422 B

Priority Applications (No Type Date): SU 3405388 A 19820303

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
SU 1040424	A		3				

Abstract (Basic): SU 1040424 A

The accelerometer has improved impact strength, achieved by having the flexible cross-pieces fixed non-perpendicularly to the axis of the torsion and placed in planes, intersecting the axis of the torsion.

Under the action of angular acceleration, rotor (1) is displaced and the capacitance of the movement converter is unbalanced. The imbalance signal is processed in an electronic unit (13) and passed, simultaneously, to the output and to the winding for force balancing. During change of acceleration, an EMF proportional to speed of movement of the inertial element, is induced in the second balancing winding. This signal is passed to the damping winding. Bul.33/7.9.83

(3pp Dwg.No.1/4)

Title Terms: ANGULAR; ACCELERATE; ELECTRONIC; UNIT; PROCESS; IMBALANCE; SIGNAL; CAUSE; MOVEMENT; ROTOR; OUTPUT; SIGNAL; DAMP; BALANCE

Derwent Class: S02

International Patent Class (Additional): G01P-015/12

File Segment: EPI

Manual Codes (EPI/S-X): S02-G03